

**IN THE ABSTRACT**

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## ABSTRACT

An integrated cross-switching unit and a service scheduling method thereof are provided. The integrated cross-switching unit includes: a bus identification module, a cross-connecting module, a mapping/de-mapping module, an encapsulation/de-encapsulation module, and a packet scheduling module; the bus identification module identifies service source, transmits service from a line unit to the cross-connecting module and directly sends the data packets from the data service processing unit to the packet scheduling module to implement scheduling; the cross-connecting module implements TDM service cross-connecting, and transmits the data service of the service from the line unit to the packet scheduling module via the mapping/de-mapping module and the encapsulation/de-encapsulation module to implement scheduling. This solution integrates the cross-connecting function and switching function of TDM service and data service in the same unit, reducing system slots and realizing larger-capacity service scheduling.